

PC43 EC 1 ASTVIHYEPEEREK-----GFAVGNVVANL--GLDLGSLSA--  
 EC 2 PTOEMKLEISEAVAP-----GTRFPLESAH---DPDLGNSL--  
 EC 3 NOSLYRARVPGGCTS-----GTRVVQVLAT---DLDEGPNGE--  
 EC 4 TVTSVYSPVPEDAS-----GTVIALLSVT---DLDAGENGL--  
 EC 5 SQSSYDVYIEENLP-----GAPILNLSW---DPDAPQNAAR--  
 EC 6 LYPRPGGSSVEMLPRGTA-GHLVSRVVGW----DADAGHNAM--  
 PC42 EC 1 VPEEQPNTLI-----GSL-----AADYGFPDVG--  
 EC 2 ASPVITLAIPENTNI-----GSFPIPLAS---DRDAGPNGV--  
 EC 3 ERPSYEAELSENSPI-----GHSVIOVKAN---DSOGANAE--  
 EC 4 EIRGIGLVTHODGMANISEDVAEETAVALVQVSDRDEGENAA--  
 EC 5 TQSVTEVAEPENKVP-----GEVIAETAS---DADSGSNAE--  
 EC 6 MLSGYNFSVMENMPA-----LSPVGMVTVI---DGDKGENAO--  
 EC 7 TAPSNTHKLLTPQTRL-----GETVSQVAEE---DFDSGVNAE--  
 FAT EC18 EDTVYSFDIPENAOQR-----GYOVGQIVAR---DADLGONAO--  
 N-CAD EC 1 DWIPIPINLPENSRG-----PFOELVRIRS---DRKNLSLRYT  
 EC 2 LHOVMNGTVEGSKP-----GTVMVTVTAI---DADDPNALNGM  
 EC 3 TAMTFYGEVPERVVD-----IIVANLTVT---DKQOHPHPAWN  
 EC 4 APNPKIIRQEEGLHA-----GTMLTFTTAG---DPDRYMOON--  
 EC 5 LPQEAETCTPDPSINITAL-----DYDIDPNAGP--  
 Motif \*\*\*\*\*EN\*\*\*-----GT\*V\*\*\*A\*---D\*D\*G\*N\*\*\*--

FIGURE 1A

PC43 EC 1 RRPVVGASRR-----FFEVRER-----GEMFVNR-----  
 EC 2 QYELSRNEY-----FALRVQTRDSTKYAELVLERA-----  
 EC 3 IYSGFSHNAGVRQL--FALDLVT-----GMLTIKGR-----  
 EC 4 VTCVEPPGLP-----FSLTSSKNYFTLKTSD-----  
 EC 5 LSFFILLEQGAETGLVGRYFTINRDN-----GIYSSLYP-----  
 EC 6 LSYSLFGSPNOSL-----FAIGLHT-----GOISTARPV-----  
  
 PC42 EC 1 HLYKLEVGAPE-----YLRVDGKT-----GDIFTTETS-----  
 EC 2 ASYELOVAED-----OEKQPQLIVMGN-----  
 EC 3 IEYTFHOAPEVVRRL--LRDRNT-----GLITVQGP-----  
 EC 4 VTCVAGDVP-----FOLROASETGDSKKKYFLQTTTP-----  
 EC 5 LVYSLEPEPAKGL-----FTISPET-----GEIQVKTS-----  
 EC 6 VQLSVEQDNGD-----FVIQNGT-----GTILSSLS-----  
 EC 7 LIYSIAGGNPYGL-----FOIGSHS-----GAITLEKE-----  
  
 FAT EC18 LSYGVVSDMADV-----FSLNPQT-----GMLTLTAR-----  
  
 N-CAD EC 1 VTGPGADQPTGI-----FIINPIS-----GOLSVTKP-----  
 EC 2 LRYRIVSOAPSTPSNM--FTINNET-----GDIITVAAG-----  
 EC 3 AVYRISGGDPTGR-----FAIQTDPNSEND--GLVTVVKP-----  
 EC 4 IRYTKLSDPAN-----WLKIDPVN-----GOITIIAV-----  
 EC 5 FAFDPLSPVTIKRN--WTITRLN-----GDFQLNLK-----  
  
 MOTIF I\*0\*I\*\*\*\*\*0\*I\*\*\*T-----G\*I\*T\*\*\*-----

FIGURE 1B

PC43	EC 1	LDRLCGLTLPSCVTTLLELVENP-----	ELFSEVVEVITODINDNNPAF
	EC 2	LDREPSLQVLTAIDGGTPAL-----	SASLPITHIKVLDAANDAPVF
	EC 3	LDDEDTKLHETYIOAKDKGANPE-----	GAHCKVLVEVVVDVNDNAPEI
	EC 4	LDRETPYENLSTARDAGTPSL-----	SALTIVRVQVSDINDNPPOS
	EC 5	LDYEDRREFELTAHISDGGTPVL-----	ATNISVINIFVTDNDNAPQV
	EC 6	QDTSRPTLLTVL- IKDNGEPLSTTATLTVSVTDSPEARAEFPGSGAPREQKKN	
PC42	EC 1	IDREGLRECONQLPGDPCILEFEVSITDLVQNAS--	PRLLLEGQIEVODINDNTPNF
	EC 2	LDREMDSYDLTIKVDGGSPPR-----	ATSALLRVTVLDTNDNAPKF
	EC 3	VDREDLSTLRFSLAKDRGTNPK-----	SARQVVTVKDMNDNAPTI
	EC 4	LDYKVKDYTTETIAVDSGNPPL-----	SSTNSLKVVQVVDVNDNAPVF
	EC 5	LDREQRESYELKVAADRGPSSL-----	QGTATVLNVLDCNDNDPKF
	EC 6	FDREQDSTYTFOLKAVDGGVPPR-----	SAYVGVTTINVLNDENAPYI
	EC 7	TERHHGLHRLVVKVSDRGKPPRYGTALVHLVYNETLANRTLLETLLGHSLDTPLD	IDTAGDPEYERSKORGN
FAT	EC18	LDYEEVGHYILLVQADNDNGOPSL-----	STTITVVCNVLNDNDNAPIF
N-CAD	EC 1	LDREQTARFHLRAHAVDINGNOV-----	ENPIDIVINVTDMNDNRPEF
	EC 2	LDRENVQOYTLIIQATDMEGIPTYGL-----	SNTATAVITVTVDVNDNPPEF
	EC 3	IDFETNRMFVLTVAAENQVPLAKGTQHP-----	QSTATVSVTVTDVNE--NPYF
	EC 4	LDRESPNKKNIYNATFLASDNGIPPM-----	SGTGTLOIYLLDINDNAPQV
	EC 5	IKFLEAGTYEPIIITDSGNPPKSNIS-----	ILRVVCCOCDFNGDCTDQDR
MOTIF		LDRE*****L*v*v*A*d*G*p*P***-----	**T*T*V*v*v*V*d*D*NDNAP*F

FIGURE 1C